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### NOTICE OF ALLOWANCE AND FEE(S) DUE

166

7590

12/09/2009

EXAMINER

NGUYEN, KHANH TUAN

ART UNIT PAPER NUMBER

YOUNG & THOMPSON 209 Madison Street Suite 500 Alexandria, VA 22314

1796 DATE MAILED: 12/09/2009

APPLICATION NO.	APPLICATION NO. FILING DATE FIRST N		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/551,948	10/06/2005	Myrtil Kahn	0617-1028	6839

TITLE OF INVENTION: METHOD FOR THE PREPARATION OF A COMPOSITION OF NANOPARTICLES OF AT LEAST ONE CRYSTALLINE METAL OXIDE

APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(8) DUE DATE DUE nonprovisional NO \$1510 \$300 \$0 \$1810 03/09/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

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YOUNG & TH	IOMPSON			I her	eby certify that the	is Fee(	s) Transmittal is being	deposited w	ith the United
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Alexandria, VA	22314							(	Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFIRMA	ATION NO.
10/551,948	10/06/2005	•	Myrtil Kahn				0617-1028	68	339
ITLE OF INVENTION IETAL OXIDE	: METHOD FOR THE	PREPARATION OF A	COMPOSITION OF	NAN	NOPARTICLES C	F AT	LEAST ONE CRYST	ALLINE	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	DAT	TE DUE
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EXAM	INER	ART UNIT	CLASS-SUBCLASS	;					
NGUYEN, KI	IANH TUAN	1796	252-500000						
Change of correspondence address or indication of "Fee Address" (37 FR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of u or agents OR, alter (2) the name of a s registered attorney	of a single firm (having as a member a orney or agent) and the names of up to latent attorneys or agents. If no name is					
PLEASE NOTE: Unl	ess an assignee is identi h in 37 CFR 3.11. Comp	A TO BE PRINTED ON T fied below, no assignee eletion of this form is NO	data will appear on the	he pa g an a	tent. If an assignersignment.			ocument has	been filed for
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Publication Fee (No small entity discount permitted)			Payment by credit card. Form PTO-2038 is attached.						
Advance Order - # of Copies			The Director is he	Director is hereby authorized to charge the required fee(s), any deficiency, or credit any rpayment, to Deposit Account Number (enclose an extra copy of this form).					
_ ` .	tus (from status indicated s SMALL ENTITY statu		h Applicant is no	long	er claiming SMAI	I EN	ΓΙΤΥ status. See 37 CF	R 1 27(a)(2)	
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his collection of inform	ation is required by 37 C	FR 1 311 The information	on is required to obtain	or re	etain a benefit by t	ne publ	lic which is to file (and	by the USP	TO to process)
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/551,948	10/06/2005	Myrtil Kahn	0617-1028	6839		
466 7:	466 7590 12/09/2009		EXAMINER			
YOUNG & THO	MPSON	NGUYEN, KHANH TUAN				
209 Madison Stree	t	ART UNIT				
Suite 500 Alexandria, VA 22	2314		1796 DATE MAILED: 12/09/2009			

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 329 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 329 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/551,948	KAHN ET AL.			
Notice of Allowability	Examiner	Art Unit			
	KHANILT NOUVEN	1706			
	KHANH T. NGUYEN	1796			
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in s) or other appropriate commu RIGHTS. This application is s	n this application. If not included unication will be mailed in due cou	rse. <b>THIS</b>		
1. This communication is responsive to <u>09/03/2009</u> .					
2. X The allowed claim(s) is/are 25-35,39-44 and 50.					
3. Acknowledgment is made of a claim for foreign priority of a) All b) □ Some* c) □ None of the:  1. □ Certified copies of the priority documents have		or (f).			
□ Certified copies of the priority documents have		n No			
Copies of the certified copies of the priority decuments have	• •		from the		
International Bureau (PCT Rule 17.2(a)).	ocuments have been received	a iii tiiis hational stage application	nom me		
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the require	∍ments		
4. A SUBSTITUTE OATH OR DECLARATION must be sub- INFORMAL PATENT APPLICATION (PTO-152) which give			CE OF		
5. CORRECTED DRAWINGS ( as "replacement sheets") mu	ust be submitted.				
(a) ☐ including changes required by the Notice of Draftspe	rson's Patent Drawing Reviev	v ( PTO-948) attached			
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	<b>_</b> •				
<ul><li>(b) ☐ including changes required by the attached Examine Paper No./Mail Date</li></ul>	r's Amendment / Comment or	in the Office action of			
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			k) of		
<ol> <li>DEPOSIT OF and/or INFORMATION about the dep- attached Examiner's comment regarding REQUIREMENT</li> </ol>			the:		
Attachment(s)	E   Notice of In	formal Datant Application			
1. Notice of References Cited (PTO-892)		formal Patent Application			
2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO/SP/08)	Paper No.	ummary (PTO-413), Mail Date Amendment/Comment			
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date</li> </ol>	r. ∟ ∈xaminers	Amendment/Commett			
<ol> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol>		8.  Examiner's Statement of Reasons for Allowance			
	9.  Other	<u>-</u>			
/Mark Kopec/	/KTN/				
Primary Examiner, Art Unit 1796	11/29/2009				

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### DETAILED ACTION

1. The amendment filed on 09/03/2009 is entered and acknowledged by the Examiner. Claims 25-35, 39-44, and 50 are currently pending in the instant application. Claims 1-24, 36-38, and 45-49 have been canceled.

2. The rejection as set forth in the pervious Office action mailed on 06/03/2009 is withdrawn in light of Applicant's amendment.

### Allowable Subject Matter

- 3. Claims 25-35, 39-44, and 50 are allowed.
- 4. The following is an examiner's statement of reasons for allowance: The amendment filed on 09/03/2009 has been carefully reviewed and searched. The closest prior art to Hyeon (US Pub. 2004/0247503) and Fau (US Pat. 6,395,053) teach a process that requires thermal treatment, whereas the amended claims does not involve thermal treatment to produce the nanoparticles. Currently, there is no prior art alone or in combination that teaches or suggest a process for preparing nanoparticle comprising of the claimed process steps without involving

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thermal treatment. The Examiner noted that the phase "non-aqueous solvent medium" is definite as a non-alcohol that is free of any compound having reactive hydroxyl function and free of alcohol function (see Specification at page 11, lines 9-13). Therefore, claims 25-35, 39-44, and 50 are allowed over the prior art of record.

Page 3

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHANH T. NGUYEN whose telephone number is (571) 272-8082. The examiner can normally be reached on Monday-Friday 7:00-4:00 EST PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on (571) 272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mark Kopec/ Primary Examiner, Art Unit 1796

/Khanh Tuan Nguyen/ Examiner 11/29/2009